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Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

**UTILITY  
PATENT APPLICATION  
TRANSMITTAL**

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No. TI-22944.2

First Inventor Kian Teng Eng

Title VERTICAL BALL GRID ARRAY INTEGRATED CIRCUIT PACKAGE

Express Mail Label No. EL645451390US

**APPLICATION ELEMENTS**

See MPEP chapter 600 concerning utility patent application contents

**ADDRESS TO:**Assistant Commissioner for Patents  
Box Patent Application  
Washington, DC 202311. ☒ Fee Transmittal Form (e.g., PTO/SB/17)  
(Submit an original, and a duplicate for fee processing)2. ☐ Applicant claims small entity status.  
See 37 CFR 1.27.3. ☒ Specification Pages [ Total 48 ]  
(preferred arrangement set forth below)  
- Descriptive title of the invention  
- Cross Reference to Related Applications  
- Statement Regarding Fed sponsored R & D  
- Reference to sequence listing, a table,  
or a computer program listing appendix  
- Background of the invention  
- Brief Summary of the invention  
- Brief Description of the Drawings (if filed)  
- Detailed Description  
- Claim(s)  
- Abstract of the Disclosure4. ☒ Drawing(s) (35 U.S.C. 113) [ Total 3 ]  
Sheets

5. Oath or Declaration Pages [ Total 1 ]

a. ☐ Newly Executed (original or copy)b. ☒ Copy from a prior application (37 CFR 1.63(d))  
(for continuation/divisional with Box 18 completed)c. ☐ **DELETION OF INVENTOR(S)**  
Signed statement attached deleting inventor(s)  
named in the prior application, see 37 CFR  
1.63(d)(2) and 1.33(b).6. ☐ Application Data Sheet. See 37 CFR 1.767. ☐ CD-ROM or CD-R in duplicate, large table or  
Computer Program (Appendix)  
8. ☐ Nucleotide and/or Amino Acid Sequence Submission  
(if applicable, all necessary)a. ☐ Computer Readable Form (CRF)

b. Specification Sequence Listing on:

i. ☐ CD-ROM or CD-R (2 copies); orii. ☐ paperc. ☐ Statements verifying identity of above copies**ACCOMPANYING APPLICATION PARTS**9. ☐ Assignment Papers (cover sheet & documents(s))10. ☐ 37 CFR 3.73(b) Statement [ Power of  
(when there is an assignee) Attorney11. ☐ English Translation Document (if applicable)12. ☐ Information Disclosure [ Copies of IDS  
Statement (IDS)/PTO-1449 Citations13. ☒ Preliminary Amendment14. ☒ Return Receipt Postcard (MPEP 503)  
(Should be specifically itemized)15. ☐ Certified Copy of Priority Document(s)  
(if foreign priority is claimed)16. ☐ Request and Certification under 35 U.S.C. 122  
(b)(2)(B)(i). Applicant must attach form PTO/SB/35  
or its equivalent.17. ☐ Other:18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment,  
or in an Application Data Sheet under 37 CFR 1.76:☐ Continuation☒ Divisional☐ Continuation-in-part (CIP)

of prior application No: 09/478,917

Prior application information:

Examiner Chauncey Jonsson

Group / Art Unit: 2822

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a  
part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when  
a portion has been inadvertently omitted from the submitted application parts.**19. CORRESPONDENCE ADDRESS**☐ Customer Number or Bar Code Label

23494

(Insert Customer No. or Attach bar code label here)

or ☒ Correspondence address below

NAME Texas Instruments Incorporated

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Registration No. (Attorney/Agent)

Reg. No. 36,491

Signature

M. E. Courtney

Date

1-19-01

**FEE TRANSMITTAL**

Patent fees are subject to annual revision on October 1.

These are the fees effective November 10, 1998

Small Entity payments must be supported by a small entity statement, otherwise large entity fees must be paid. See Forms PTO/SB/09-12.

Delete If Known

Application Number 11/19/01  
 Filing Date Kian Teng Eng  
 First Named Inventor TBD  
 Examiner Name TBD  
 Group / Art Unit TI-22944.2  
 Attorney Docket No.

TOTAL AMOUNT OF PAYMENT (\$)**710****METHOD OF PAYMENT**

- 1.
- ☒
- The Commissioner is hereby authorized to charge to the following Deposit Account.

Deposit Account Number

**20-0668**

Deposit Account Name

**Texas Instruments Incorporated**

- ☒
- Charge any additional fee required or credit any overpayment
- ☐
- Charge all indicated fees and any additional fee required or credit any overpayment

- 2.
- ☐
- Payment Enclosed:

☐ Check
 ☐ Money Order
 ☐ Other
**FEE CALCULATION****1. BASIC FILING FEE**

Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	Fee Paid
105	710	201	355	Utility filing fee	710
106	320	206	160	Design filing fee	\$
107	490	207	245	Plant filing fee	\$
108	710	208	355	Reissue filing fee	\$
109	150	214	75	Provisional filing fee	\$

SUBTOTAL (1) (\$)**710****2. EXTRA CLAIM FEES**

	Extra Claims	Fee from below	Fee Paid
Total Claims <b>11</b>	-20** = <b>0</b>	x <b>18</b>	= <b>0</b>
Independent Claims <b>3</b>	-3** = <b>0</b>	x <b>80</b>	= <b>0</b>
Multiple Dependent		<b>270</b>	= <b>0</b>

\*\*or number previously paid, if greater; For Reissue, see below

Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description
103	18	203	9	Claims in excess of 20
102	78	202	39	Independent Claims in excess of 3
104	260	204	130	Multiple dependent claims in excess of 3
109	78	209	39	**Reissue independent claims over original patent
110	18	210	9	**Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) (\$)**0****FEE CALCULATION (continued)****3. ADDITIONAL FEES**

Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	Fee Paid
127	50	227	25	Surcharge - late filing fee	
				Surcharge - late provisional filing fee or cover sheet.	
139	130	139	130	Non-English specification	
147	2,520	147	2,520	For filing a request for reexamination	
112	920*	112	920*	Requesting publication of SIR prior to Examiner action	
113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action	
115	110	215	55	Extension for reply within first month	
116	380	216	190	Extension of time within second month	
117	870	217	435	Extension of time within third month	
118	1,360	218	680	Extension of time within fourth month	
128	1,850	228	925	Extension of time within fifth month	
119	300	219	150	Notice of Appeal	
120	300	220	150	Filing a brief in support of an appeal	
121	260	221	130	Request for oral hearing	
138	1,510	138	1,510	Petition to institute a public use proceeding	
140	110	240	55	Petition to revive - unavoidable	
141	1,210	241	605	Petition to revive - unintentional	
142	1,210	242	605	Utility issue fee (or reissue)	
143	430	243	215	Design issue fee	
144	580	244	290	Plant issue fee	
122	130	122	130	Petitions to the Commissioner	
123	50	123	50	Petitions related to provisional applications	
128	240	128	240	Submission of Information Disclosure Stmt.	
581	40	581	40	Recording each patent assignment per property (time number of properties)	
146	790	246	395	Filing a submission after final rejection (37 CFR 1.129(a))	
149	790	249	395	For each additional invention to be examined (37 CFR 1.129(b))	

Other fee (specify) \_\_\_\_\_

Other fee (specify) \_\_\_\_\_

\*Reduced by Basic Filing Fee Paid

SUBTOTAL (3)

**SUBMITTED BY**

Typed or Printed Name

**Mark E. Courtney**

Signature

Date

**1-19-01**

Complete (if applicable)

Reg. Number

**36,491**

Deposit Account User ID

3645 U.S. PTO 09/766477

01/19/01